JAVA Solution - 1

Program 1

```
// Write a java program which uses all arithmatic operator and which display
Addition,Subtraction,Multiplication,Division and modul of two float variables. */

import java.util.Scanner;
class pro_1{
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        System.out.println("======================");

        System.out.print("Enter 2 Numbers : ");
        int a = sc.nextInt();
        int b = sc.nextInt();

        int add = a+b;
        System.out.println("Addition is : "+add);

        int sub = a-b;
        System.out.println("Substraction is : "+sub);

        int mul = a*b;
        System.out.println("Multiplication is : "+mul);

        float div = a/b;
        System.out.println("Division is : "+div);

        float mod = (b/a)*100;
        System.out.println("Modul is : "+mod);
    }
}
```

Program 2

```
// Write a program which displays 0 to 9 digits using simple for loop.

import java.util.Scanner;
class pro_2{
    public static void main(String args[]){
        int i;
        System.out.print("Numbers is : ");
        for(i=0;i<10;i++){
            System.out.print(+i +", ");
        }
    }
}
```

Program 3

```
// Write a program which compares a character and display message that both are same or not.

import java.util.Scanner;
class pro_3{
    public static void main(String args[]){
        int i,len=0,flag=0;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter First String : ");
        String str1 = sc.nextLine();
        System.out.print("Enter Second String : ");
        String str2 =sc.nextLine();
```

```
        if(str1.equals(str2))
            System.out.println("\n Strings is same..");
        else
            System.out.println("\n Strings is not same..");
    }
}
```

Program 4

```
// Write a program which print number between 100 to 200 which divided by 7.  class

class pro_4{
    public static void main(String args[]){
        for(int i = 100 ; i<=200 ; i++){
            if(i % 7 ==0){
                System.out.print(i +", ");
            }
        }
    }
}
```

Program 5

```
// Write a program which print number between 10 to 15 which divided by 2. class

class pro_5{
    public static void main(String args[]){
        for(int i = 10 ; i<=15 ; i++){
            if(i % 2 ==0){
                System.out.print(i +", ");
            }
        }
    }
}
```

Program 6

```
// Write a program which print number between 10 to 100 which divided by 5. class

class pro_6{
    public static void main(String args[]){
        for(int i = 10 ; i<=100 ; i++){
            if(i % 5 ==0){
                System.out.print(i +", ");
            }
        }
    }
}
```

Program 7

```
// Write a program of division check second value of division is zero than give Divide By Zero e

import java.util.Scanner;

class pro_7{

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);
```

```
        // Input
        System.out.print("Enter the first number: ");
        double num1 = scanner.nextDouble();

        System.out.print("Enter the second number: ");
        double num2 = scanner.nextDouble();

        // Check for zero and divide
        if (num2 == 0){
            System.out.println("Divide By Zero Error");
        }
        else {
            double result = num1 / num2;
            System.out.println("Result: " + result);
        }
    }
}
```

Program 8

```
// Write a program which finds factorial of N number.
import java.util.Scanner;
class pro_8{
    public static void main(String args[]){
        int i,fact=1;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter any number : ");
        int number = sc.nextInt();
        for(i=1;i<=number;i++){
             fact=fact*i;
        }
        System.out.print("Factorial of "+number+" is : "+fact);
    }
}
```

Program 9

```
 // Write a program which find Armstrong number from 0 to 1000
```

```
  class pro_9{
    public static void main(String arg[]){
        int a=0,b=0,q=0,no;
        System.out.println("\nAll Armstrong Numbers between 1 to 1000 is : ");
        for(no=0;no<=1000;no++){
            a=no;
            q=0;
            while(a>0){
                b=a%10;
                a=a/10;
                q+=(b*b*b);
            }
            if(no==q){
                System.out.println("\n "+no);
            }
        }
    }
 }
```

Program 10

```
// Write a program which displays prime numbers between 1 to 100.


public class pro_10{
    public static void main(String[] args) {
        System.out.println("Prime numbers from 1 to 100 are:");
        for (int num = 2; num <= 100; num++){
            boolean isPrime = true;

            // Check if the number is divisible by any number other than 1 and itself
            for (int i = 2; i <= Math.sqrt(num); i++){
                if (num % i == 0){
                    isPrime = false;
                    break;
                }
            }

            // Print if prime
            if (isPrime){
                System.out.print(num + " ");
            }
        }
    }
}
```

Program 11

```
// Write a program to find Fibonacci series of a given no.

import java.util.Scanner;
public class pro_11{
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        // Input: number of terms
        System.out.print("Enter the number of terms: ");
        int n = scanner.nextInt();
```

```
        // First two Fibonacci numbers
        int first = 0, second = 1;

        System.out.println("Fibonacci Series up to " + n + "terms:");
        for (int i = 1; i <= n; ++i) {
            System.out.print(first + " ");

            // compute next term
            int next = first + second;
            first = second;
            second = next;
        }
    }
}
```